

* Pictured: RGD4C Technical References

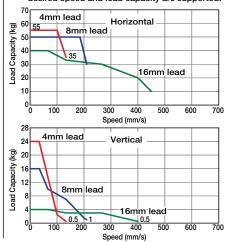
When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the critical rotational speed. Use the actuator specification table below to check the maximum speed at the stroke you desire. Since the RCP2 series use a pulse motor, the load capacity decreases at high speeds.

Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.

The load capacity is based on operation at an acceleration of 0.2G.
0.2G is the upper limit of the acceleration.
1. In addition, the horizontal load capacity is based on the use of an external guide. See the technical resources (page A-83) for the allowable weight using the supplied guide alone.

■ Speed vs. Load Capacity

Due to the characteristics of the pulse motor, the RCP2 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.



Actuator Specifications					
■ Lead and Load Capacity (Note 1) Please	note that the m	naximum load o	apacity decre	ases as the sp	eed increases.
Madel	Lead	Max. Load Capacity (Note 1)		Maximum Push	Stroke
Model	Lead Max. Load Capacity (Note 1) Maximum Push Str	(mm)			
RCP2-RGD6C-I-56P-16-①-②-③-④	16	~ 40	~ 4		
RCP2-RGD6C-I-56P-8-①-②-③-④	8	~ 50	~ 16	470	50 ~ 300 (50mm increments)
RCP2-RGD6C-I-56P-4-①-②-③-④	4	~ 55	~ 24	800	inorements)
Legend: ①Stroke ②Compatible controller ③Cable length ④Options (Note 2) See page A-69 for the pushing force graphs.					

	■ Stroke and	d Maximum Speed
	Stroke Lead	$50\sim300$ (50mm increments)
1	16	450 <400>
	8	210
	4	130
	* The values enclosed	in < > apply for vertical usage. (Unit: mm/s)

① Stroke List

Stroke (mm)	Standard Price
50	-
100	-
150	-
200	-
250	-
300	-

③ Cable List

Туре	Cable Symbol	Standard Price
	P (1m)	-
Standard	S (3m)	-
	M (5m)	-
Special Lengths	X06 (6m) ~ X10 (10m)	-
	X11 (11m) ~ X15 (15m)	-
	X16 (16m) ~ X20 (20m)	-
	R01 (1m) ~ R03 (3m)	-
Robot Cable	R04 (4m) ~ R05 (5m)	-
	R06 (6m) ~ R10 (10m)	_
	R11 (11m) ~ R15 (15m)	_
	R16 (16m) ~ R20 (20m)	_

^{*} See page A-39 for cables for maintenance.

Pulse	Motor

Rod, Type

Mini

Standard

Controllers
Integrated

4 Option List			
Name	Option Code	See Page	Standard Price
Brake	В	→ A-25	-
Foot bracket	FT	→ A-29	-
Reversed-home	NM	→ A-33	_

Actuator Specifications	
Item	Description
Drive System	Ball screw ø12mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Guide	Double guide Guide rod diameter ø12mm Ball bush type
Rod Diameter	ø22mm
Non-rotating accuracy of rod	±0.05 deg
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (non-condensing)

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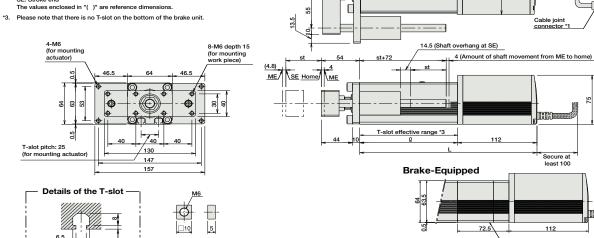
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- The motor-encoder cable is connected here See page A-39 for details on cables.
- When homing, the rod moves to the M.E.; therefore, please watch for any interference with the surrounding objects.

 ME: Mechanical end

 SE: Stroke end

 The values enclosed in "()" are reference dimensions.



* Compared to the standard model, the brake-equipped model is longer by 72.5mm and heavier by 0.9kg.

■ Dimensions/Weight by Stroke

Stroke	50	100	150	200	250	300
l	138	188	238	288	338	388
L	250	300	350	400	450	500
Weight (kg)	4.4	5.0	5.5	6.1	6.7	7.3

THE HOT Z SCHOOL	The RCP2 series actuators can operate with the controllers below. Select the controller according to your usage.								
Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Pag	
Solenoid Valve Type		PMEC-C-56PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P47	
Solenoid valve type	1	PSEP-C-56PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types. No homing necessary with simple absolute type.	3 points			-	→ P487	
Splash-Proof Solenoid Valve Type	1	PSEP-CW-56PI-NP-2-0					-	- 7P40	
Positioner Type	E	PCON-C-56PI-NP-2-0	Positioning is possible for up to 512 points	512 points			-		
Safety-Compliant Positioner Type		PCON-CG-56PI-NP-2-0		512 points			-	Ī	
Pulse Train Input Type (Differential Line Driver)	Ó	PCON-PL-56PI-NP-2-0	Pulse train input type with differential line driver support			DC24V	2A max.	-	→ P52
Pulse Train Input Type (Open Collector)		PCON-PO-56PI-NP-2-0	Pulse train input type with open collector support	(-)			-		
Serial Communication Type		PCON-SE-56PI-N-0-0	Dedicated to serial communication	64 points 768 points 1500 points			-	Ī	
Field Network Type		RPCON-56P	Dedicated to field network				-	→ P50	
Program Control Type		PSEL-C-1-56PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes				-	→ P55	

IAI

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Controllers Integrated

Rod Type

Mini

Standard

Controllers Integrated

Table/Arm

Flat Type